



Smithsonian Institution

Smithsonian Institution Archives

G. Arthur Cooper - Field Notes, circa 1955

Extracted on Oct-12-2015 01:35:03

The Smithsonian Institution continues to research information on its collections and is thankful to the digital volunteers who helped to transcribe this material. We look forward to using the work they created to further enrich our collections.

- Before you incorporate this material into a for-profit publication or online project, please contact the Smithsonian Institution Archives;
- Please leave source and copyright information as is and avoid obscuring these details in the material;
- Do not post this document as a whole to a social media site, such as a blog, Facebook page, Twitter feed, etc;
- Researchers: if you deposit this material, please let Smithsonian Institution Archives know where the material is deposited so that we can guide the community members to it.

Contact the Smithsonian Institution for the current status of this project and related material. To see this project online - or other transcription projects - please visit [here](#).

0842

1955

Aug 11. Oklahoma

A11¹ Shale and thin ls beds on east side of road underlying a limestone smashed (as Frensey ls. I think this may be where I collected in 1947. *M. haydenensis* is fairly common. I estimate the Frensey ls to be 0.28 mile south of the bridge over Oil Creek. The Frensey thus is in the NW $\frac{1}{4}$ SE $\frac{1}{4}$ 32 - 3S - 4E, Johnston Co.

A11² Is the shale just under The Frensey limestone. Abundant *Mesolobus*. This is where I collected in 1947.

A11³ Is about 1000' SE of road and just above a thin limestone

[[image - pencil sketch of layers including Sp. rocky. and Frensey]]

Aug. 12.

A12¹ Pumpkin Creek, 0.1 mile south of NW cor 29 - 35 - 3S - 2E, Carter Co.

A12² Same 100 yds E of NW cor. 29 - 35 - 2E.

A12³ 0.1 mile N of road, SW $\frac{1}{4}$ SE $\frac{1}{4}$ 4 - 3S - 1E, Carter Co. [[Girty?]] loc. 4035.

A12⁴ NW cor 33 - 35 - 1E, Carter Co., Okla Williams

A12⁵ O Herville - 600 feet S of NW cor 5 - 6S - 2E, Love Co., Okla.

0842
1955
Aug 11. Oklahoma

A11¹ Shale and thin ls beds on east side of road underlying a limestone smashed (as Frensey ls. I think this may be where I collected in 1947. *M. haydenensis* is fairly common. I estimate the Frensey ls to be 0.28 mile south of the bridge over Oil Creek. The Frensey thus is in the NW $\frac{1}{4}$ SE $\frac{1}{4}$ 32 - 3S - 4E, Johnston Co.

A11² Is the shale just under The Frensey limestone. Abundant *Mesolobus*. This is where I collected in 1947.

A11³ Is about 1000' SE of road and just above a thin limestone

Aug. 12.

A12¹ Pumpkin Creek, 0.1 mile south of NW cor 29 - 35 - 2E, Carter Co.

A12² Same 100 yds E of NW cor 29 - 35 - 2E.

A12³ 0.1 mile N of road, SW $\frac{1}{4}$ SE $\frac{1}{4}$ 4 - 3S - 1E, Carter Co. loc. 4035.


A12⁴ NW cor 33 - 35 - 1E, Carter Co., Okla Williams

A12⁵ O Herville - 600 feet S of NW cor 5 - 6S - 2E, Love Co., Okla.

G. Arthur Cooper - Field Notes, circa 1955
Transcribed and Reviewed by Digital Volunteers
Extracted Oct-12-2015 01:35:03

[[stamped]] 0843 [[/stamped]]

Aug. 16.

Four kegs packed at Muskogee, all of Mayes. Keg #4 contains one lot on top half of keg without label. This was collected Aug. 16 in afternoon inside loop of Okla 10 ca 3½ to 4 miles SE of Fort Gibson, about center S½ of NW ¼ 21 - 15N - 20E, Hulbert , Oklahoma.


Beds with big Productid and Centronella very near top of Moorefield. These are underlain by granular ls with large Flexaria and Inflatia like Inflatus of the Chester. These however underlie the big productus bed which has Moorefieldella. Beds with big Spirifer just underlie the Flexaria beds and under these is a layer teeming with Moorefieldella. Under this some distance comes Martinia - big Linoproductus bed. Below that the rocks are quite shaly.

Beds with Big Spirifer and terebratulas is just below the Flexaria bed.

Athyrid in Fayetteville on Okla 10 is near base of shale. This near center SE¼ NW¼ 21 - 15N - 20E.

0843

Aug. 16.

Four kegs packed at Muskogee, all of Mayes. Keg #4 contains one lot on top half of keg without label. This was collected Aug. 16 in afternoon inside loop of Okla 10 ca 3½ to 4 miles SE of Fort Gibson, about center S½ of NW ¼ 21 - 15N - 20E, Hulbert , Oklahoma.

Beds with big Productid & Centronella very near top of Moorefield. These are underlain by granular ls with large Flexaria and Inflatia like Inflatus of the Chester. These however underlie the big productus bed which has Moorefieldella. Beds with big Spirifer just underlie the Flexaria beds and under these is a layer teeming with Moorefieldella. Under this some distance comes Martinia - big Linoproductus bed. Below that the rocks are quite shaly.

Beds with Big Spirifer and terebratulas is just below the Flexaria bed.

Athyrid in Fayetteville on Okla 10 is near base of shale. This near center SE¼ NW¼ 21 - 15N - 20E.

G. Arthur Cooper - Field Notes, circa 1955
Transcribed and Reviewed by Digital Volunteers
Extracted Oct-12-2015 01:35:03

[[stamped]] 0844 [[/stamped]]

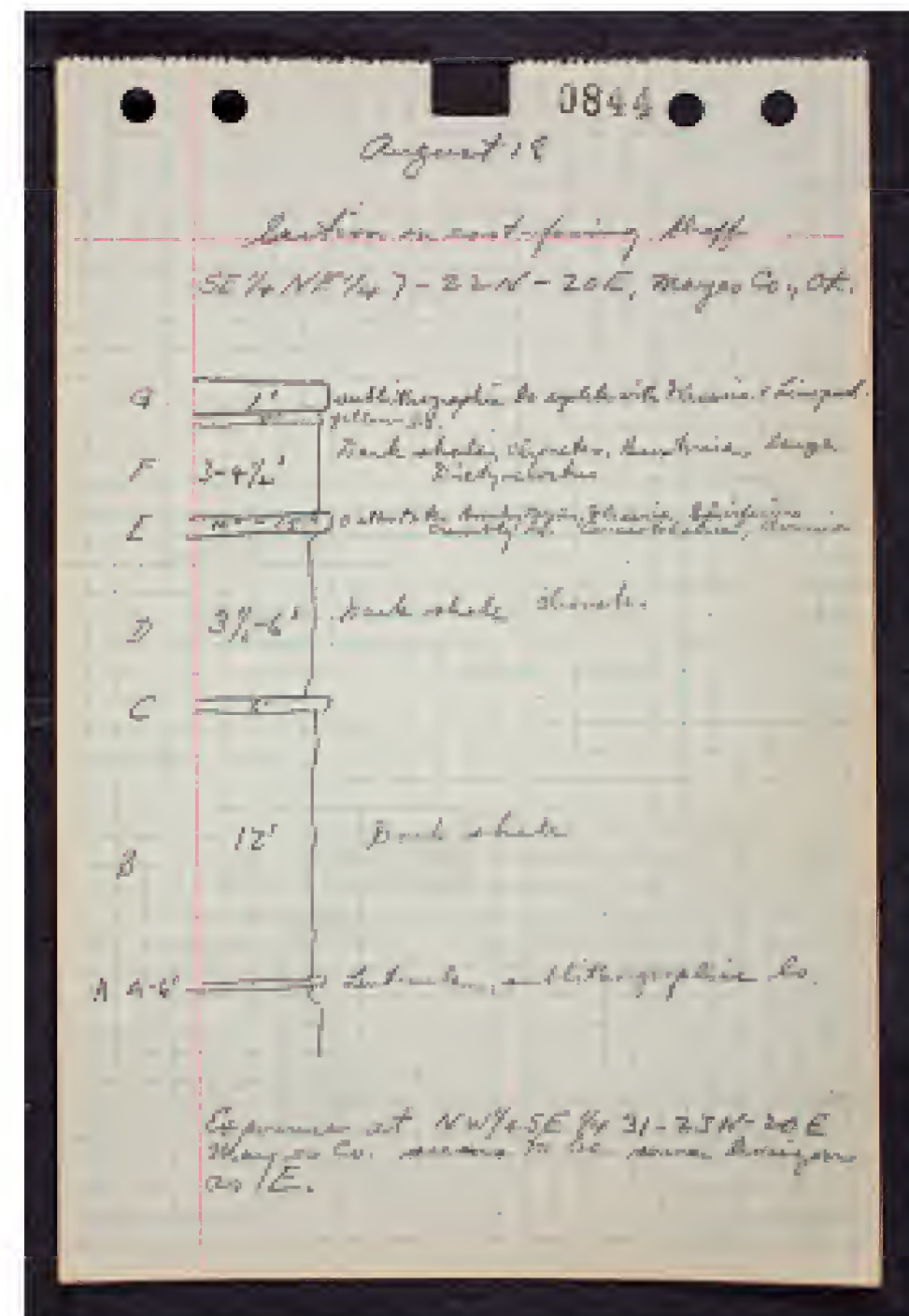
August 18

Section on east-facing bluff
SE 1/4 NE 1/4 7-22N-20E, Mayes Co., OK.

[[Image: diagram showing a cross section of soil]]

- G 1' sublithographic ls replete with Flexaria & Linopod.
8" yellow ls.
F 3 - 4 1/2' Dark shale, Chonetes, Buxteria, large Dictyoclostus
E 10" - 15" Orthotetes, Brachythyria, Flexaria, Spiriferina
Crumbly ls. Camarotoechia, [[Buusia?]]
D 3 1/2 - 6' Dark shale Chonetes
C 6"
B 12' Dark shale
A 4-6" Lenticular, sublithographic ls.

Exposure at NW 1/4 SE 1/4 31-23N-20E Mayes Co. seems to be same horizon as E.



G. Arthur Cooper - Field Notes, circa 1955
Transcribed and Reviewed by Digital Volunteers
Extracted Oct-12-2015 01:35:03

[[stamped]] 0845 [[/stamped]]

August 18

A1855 - Granular limestone with Archimedes, Diaphragmus, probably Hindsville

1855' Quarry in upper part Hindsville

Camarotoechia common, Perditocardinia rare

SW cor. 15-25N-21E, Craig Co., Okla.

Where I got big Gigantoproductus-like brachiopods is certainly Hindsville.

A1855 2 - Fayetteville - many Orthotetes

Center S 1/2 NE 1/4 10-25N-21E, Craig Co.

Aug. 22

Abandoned Qy about SE 1/4 NW 1/4 34-26N-31W., 4 1/2 mi. SSE of Diamond, MO.

0845
August 18
A1855 - Granular limestone with
Archimedes, Diaphragmus, probably
Hindsville
1855' Quarry in upper part Hindsville
Camarotoechia common, Perditocardinia
rare
SW cor. 15-25N-21E, Craig Co., Okla.
Where I got big Gigantoproductus-like
brachiopods is certainly
Hindsville.
A1855 2 - Fayetteville - many Orthotetes
Center S 1/2 NE 1/4 10-25N-21E, Craig Co.

Aug. 22
Abandoned Qy about SE 1/4 NW 1/4
34-26N-31W., 4 1/2 mi. SSE of
Diamond, MO.

G. Arthur Cooper - Field Notes, circa 1955
Transcribed and Reviewed by Digital Volunteers
Extracted Oct-12-2015 01:35:03

[[stamped]] 0846 [[/stamped]]

August 27

Section at Grand Summit about 1.2 miles NE of Station.

Slabs with interiors of *Juresania* come on top of limestone capping the Florena (= Morrill ls.) or steams shale.

[[image: diagram of cross section profile of soil]]

Juresania common

thick ls.

Sh & modular ls, level of fossils ls.

sh

ls

Red sh ls.

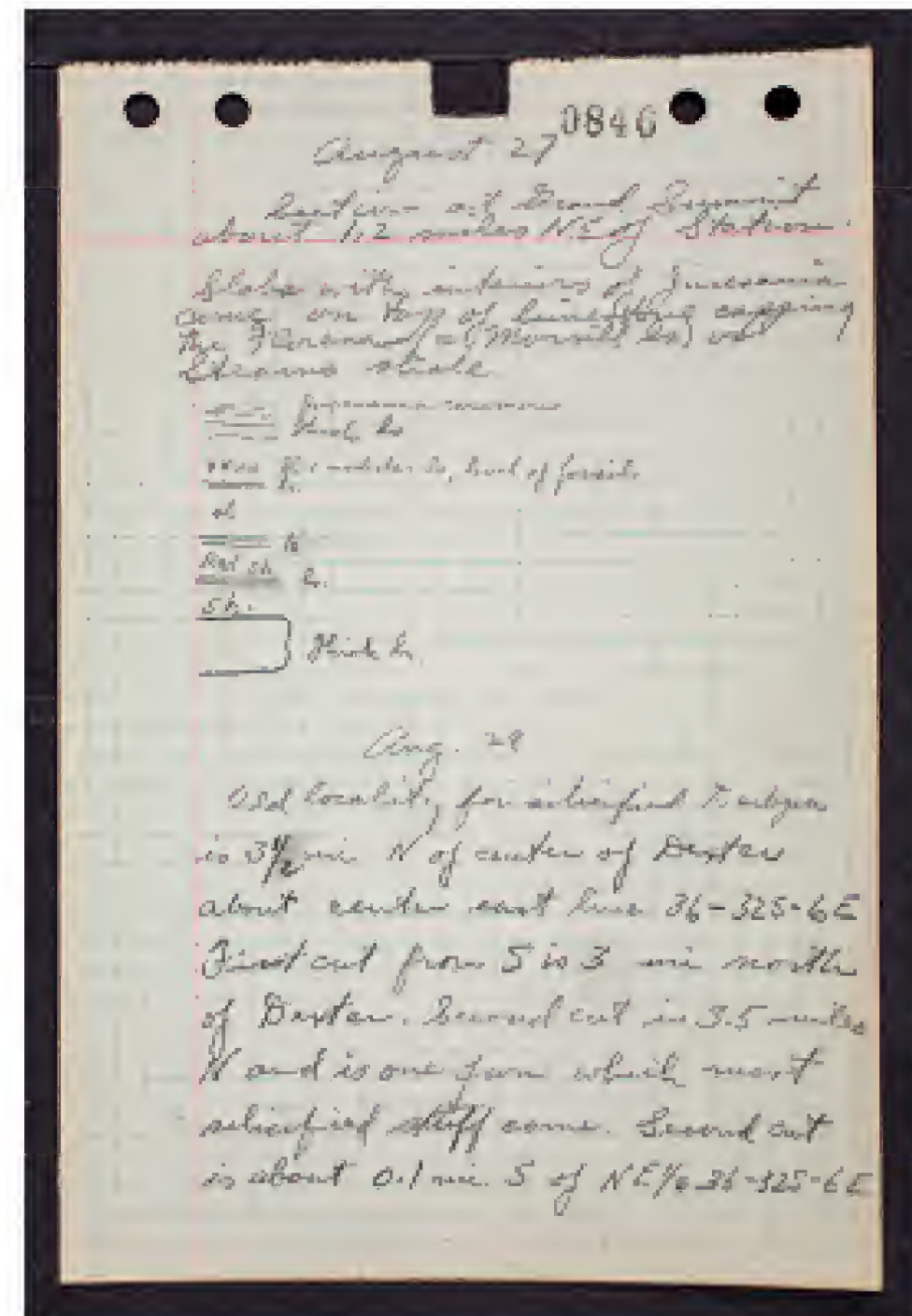
Sh

Thick ls.

Aug. 28

Old locality for silicified *Derbyia* is 3 1/2 mi N of center of Dexter about center east line 36 - 32S - 6E

First cut from S is 3 mi north of Dexter. Second cut is 3.5 miles N and is one from which most silicified stuff came. Second cut is about 0.1 mi. S of NE 1/4 36 - 32S - 6E



G. Arthur Cooper - Field Notes, circa 1955
Transcribed and Reviewed by Digital Volunteers
Extracted Oct-12-2015 01:35:03

[[stamped]] 0847 [[/stamped]]

At Junction Kans. 38 & 15 exposure of flinty limestone = Florence ls. We collected from a shale possibly Blue Spring shale.

Just east (downhill) from intersection is road cut with *Derbyia cymbula* at base

This is in cherty ls., The Wreford and is about 1/4 mile E of Florence chert cut and probably 50' & below it.

0.2 mile W of Elk - Cowley Co. line, good Florena beside road

Just over RR track about 1 mile on US 166 is a poor cut in top Florena. Second cut about 0.2 mi. W and 30' higher is in algae beds same as seen just east of Houses. *Derbyia hooserensis* must Therefore be out of the Florena

0847
at Junction Kans. 38 & 15 exposure
of flinty limestone = Florence
ls. We collected from a shale
possibly Blue Spring shale.
Just east (downhill) from
intersection, is road cut with
Derbyia cymbula at base
This is in cherty ls., The Wreford
and is about 1/4 mile E of Florence
chert cut and probably 50' & below
it.

0.2 mile W of Elk - Cowley Co.
line, good Florena beside road

Just over RR track about 1 mile
on US 166 is a poor cut in top
Florena. Second cut about 0.2 mi. W
and 30' higher is in algae beds
same as seen just east of
Houses. *Derbyia hooserensis*
must Therefore be out of the
Florena

G. Arthur Cooper - Field Notes, circa 1955
Transcribed and Reviewed by Digital Volunteers
Extracted Oct-12-2015 01:35:03

0848

Aug 30
US 77 about 5 1/2 mi S of Junction City

4
5
9.5

5.5

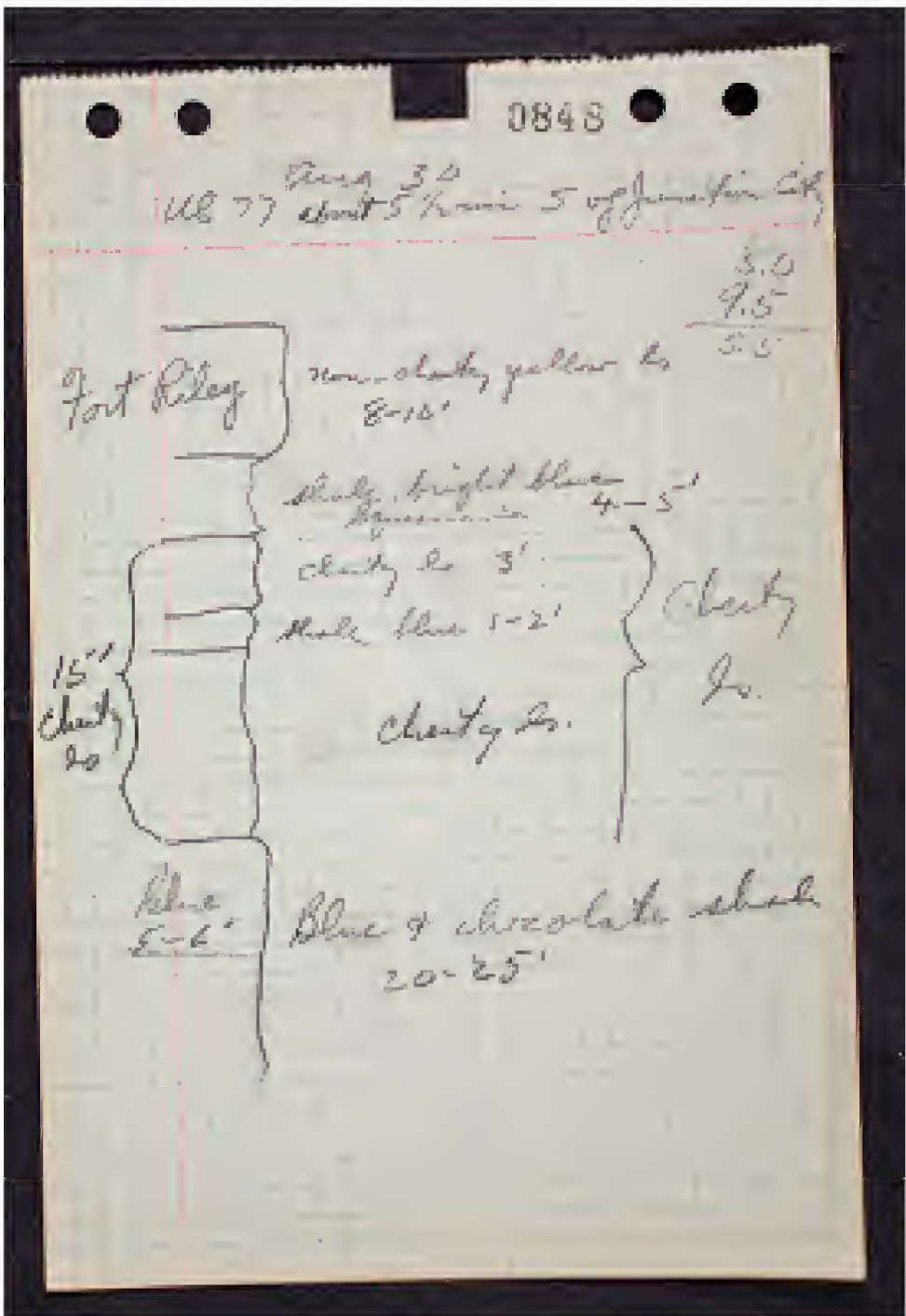
Diagram of cross section showing different shale layers and measurements

Fort Riley non-Cherty yellow ls 8-10'

shale, bright blue Scuramaria 4-5'

{ Cherty ls 3' }
15' Cherty ls { Shale blue 1-2' } Cherty ls
{ Cherty ls }

Blue 5-6' Blue & chocolate shale
20-25'

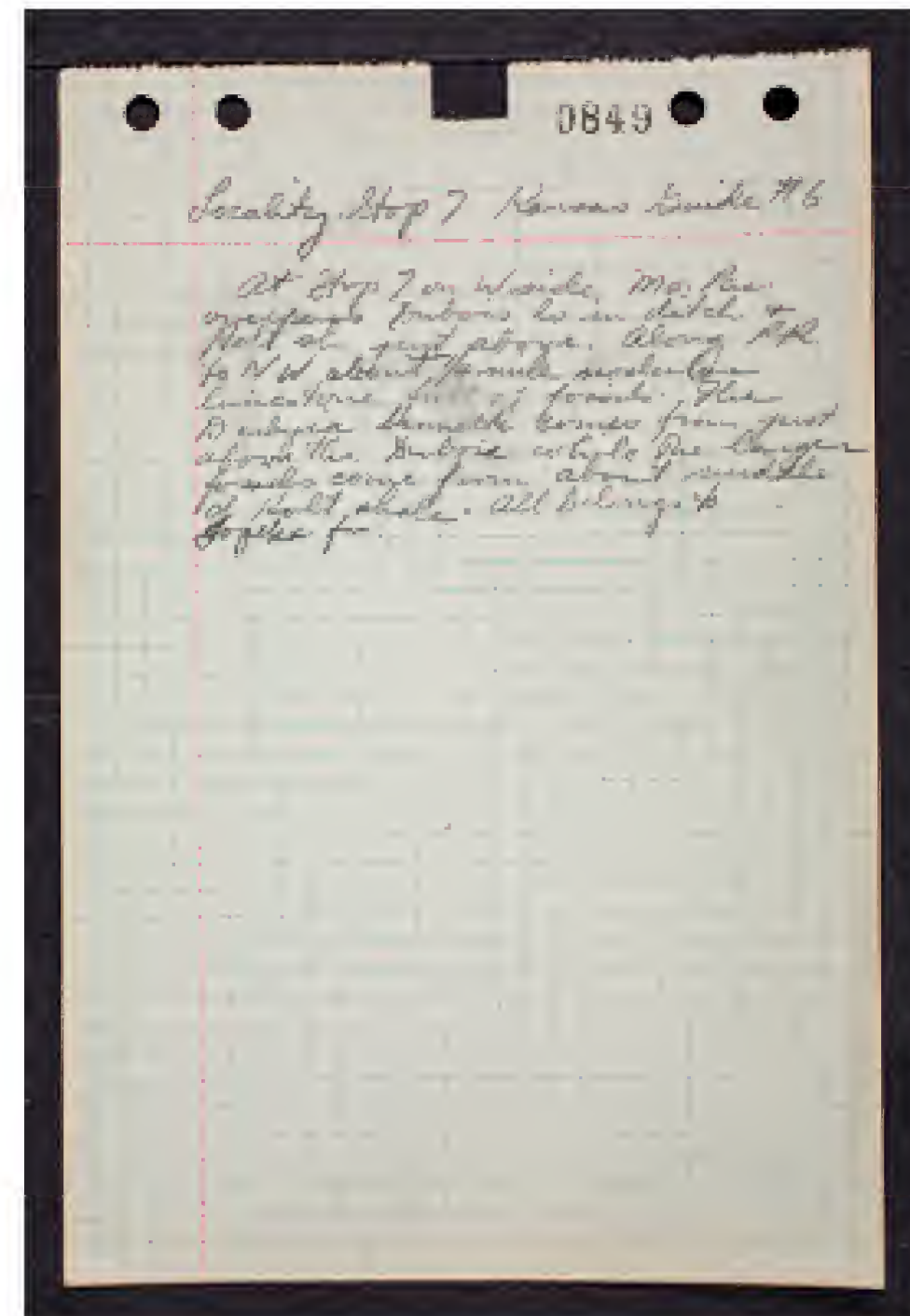


G. Arthur Cooper - Field Notes, circa 1955
Transcribed and Reviewed by Digital Volunteers
Extracted Oct-12-2015 01:35:03

[[stamped]] 0849 [[/stamped]]

Locality Stop 7 Kansas Guide #6

At Stop 7 on W side Mo. Pac. overpass Dubois ls in ditch & Holt sh just above. Along RR to NW about 1/4 mile nodules limestone full of fossils. The Derbyia beneath comes from just above the Dubois while the large fossils come from about middle of Holt shale. All belongs to Jobeka fm.



G. Arthur Cooper - Field Notes, circa 1955
Transcribed and Reviewed by Digital Volunteers
Extracted Oct-12-2015 01:35:03

0850

Sept 5

Section just east of western bend of S bend on US 75 south of Dawson.

[[image: diagram of cross section of layers of soil]]

E Shale 8' Shale with lower 4' full of fossils & thin brown layers of fossils. Linoprod., D. americanis.

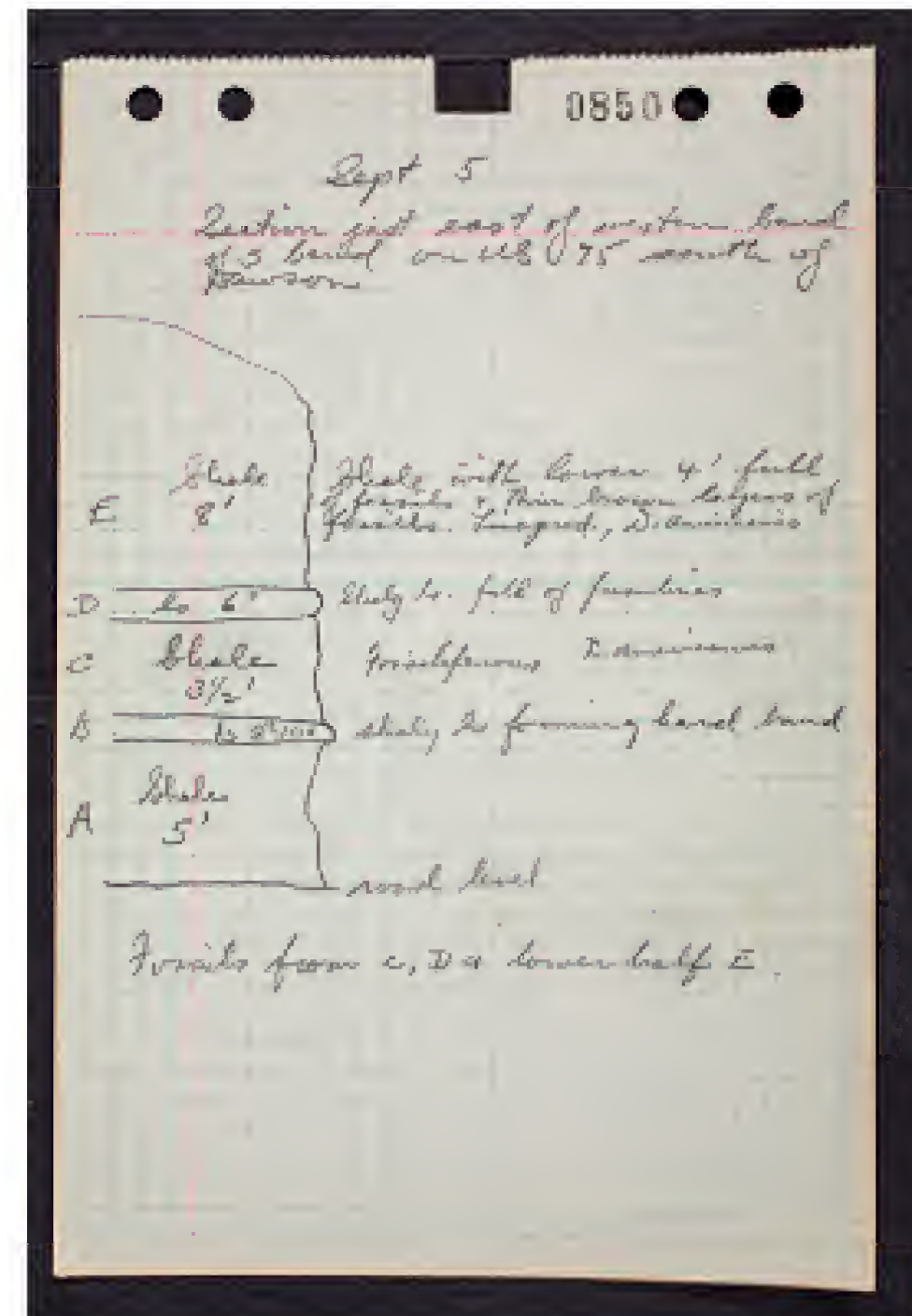
D Is 6" Shaly ls. full of fusulines

C Shale 3 1/2' Fossiliferous D. americanus

B Is 8"-10" shaly ls forming hard band

A Shale 5' road level

Fossils from C, D & lower half E.



G. Arthur Cooper - Field Notes, circa 1955
Transcribed and Reviewed by Digital Volunteers
Extracted Oct-12-2015 01:35:03

0851

Sept. 5.
Qy. 0.2 mile east of junction
US 24 & US 59, N of US 24 about 0.2 mile Hamm's Quarry ^
3 miles east of Perry. The 5' bed is irregularly bedded, light
blue when fresh but turns brown on exposure.

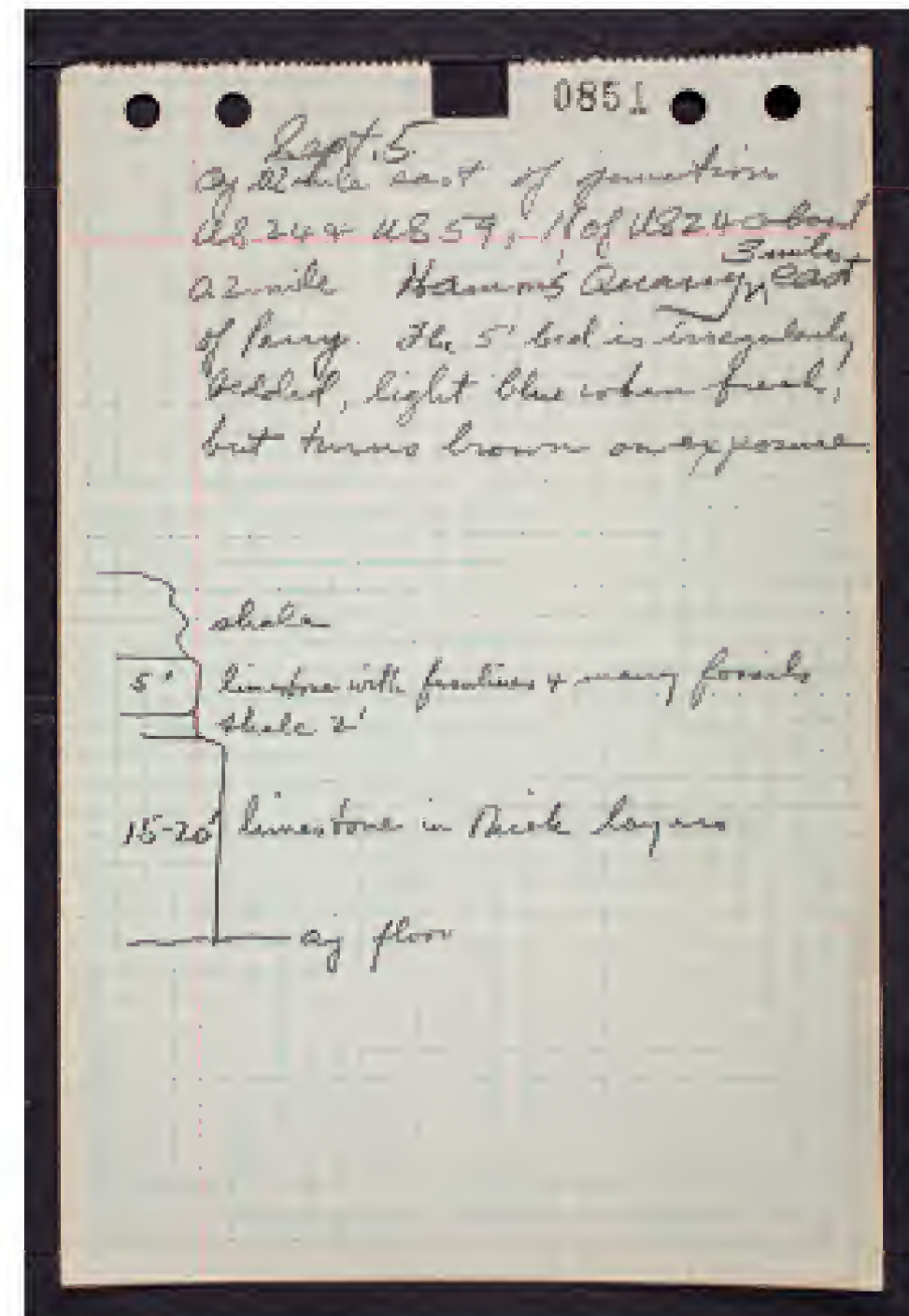
[[image: diagram of cross section of layers of soil]]

shale

5' limestone with fasulies & many fossils shale 2'

15-20' limestone in thick layers

Qy floor



G. Arthur Cooper - Field Notes, circa 1955
Transcribed and Reviewed by Digital Volunteers
Extracted Oct-12-2015 01:35:03

[[stamped]] 0852 [[/stamped]]

Sept 6

Letter to R.C.M. about treatise status, word from Williams, etc.

Moline (1 mi NE)
Borrow pit at ^{Just W} junction 99 & 160
just N of RR just W estion
11-31S-10E, Elk Co.

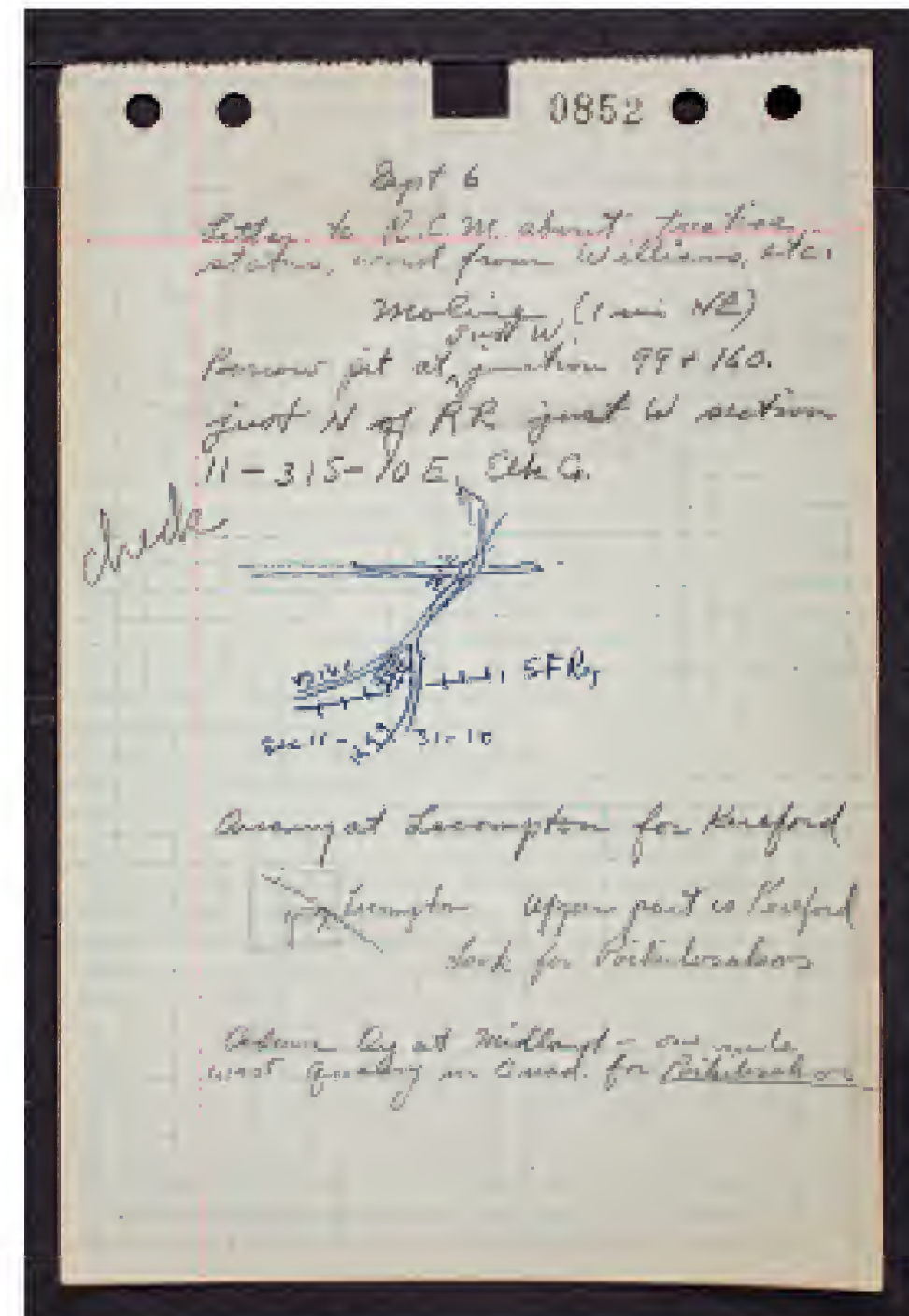
Check

[[image: map]]
[[map labels]]
VS 160
SFRy
Sec 11 -
K 99
31-1-
[[/map labels]]

Quarry at Leocompton for Kereford
[[image: map]]
[[map label]] Leocompton [[/map label]]

Upper part is Kereford
Look for Poikilosakos

Adams Qy at Midland - one mile west quarry in Oread. for Poikilosobos



G. Arthur Cooper - Field Notes, circa 1955
Transcribed and Reviewed by Digital Volunteers
Extracted Oct-12-2015 01:35:03

0853

North of Big Springs for Lecompton (Beil)

Big Springs, take road just E of B.S., go N 2 miles to school take road N of school, locality along RR to west

map of big springs with measurements, indications of property boundaries

Big Springs

76.90

76.45 at RR

75.6

75.4

73.7

line

3.4 miles N to RR, 1/2 mi west along RR tracks

line across page

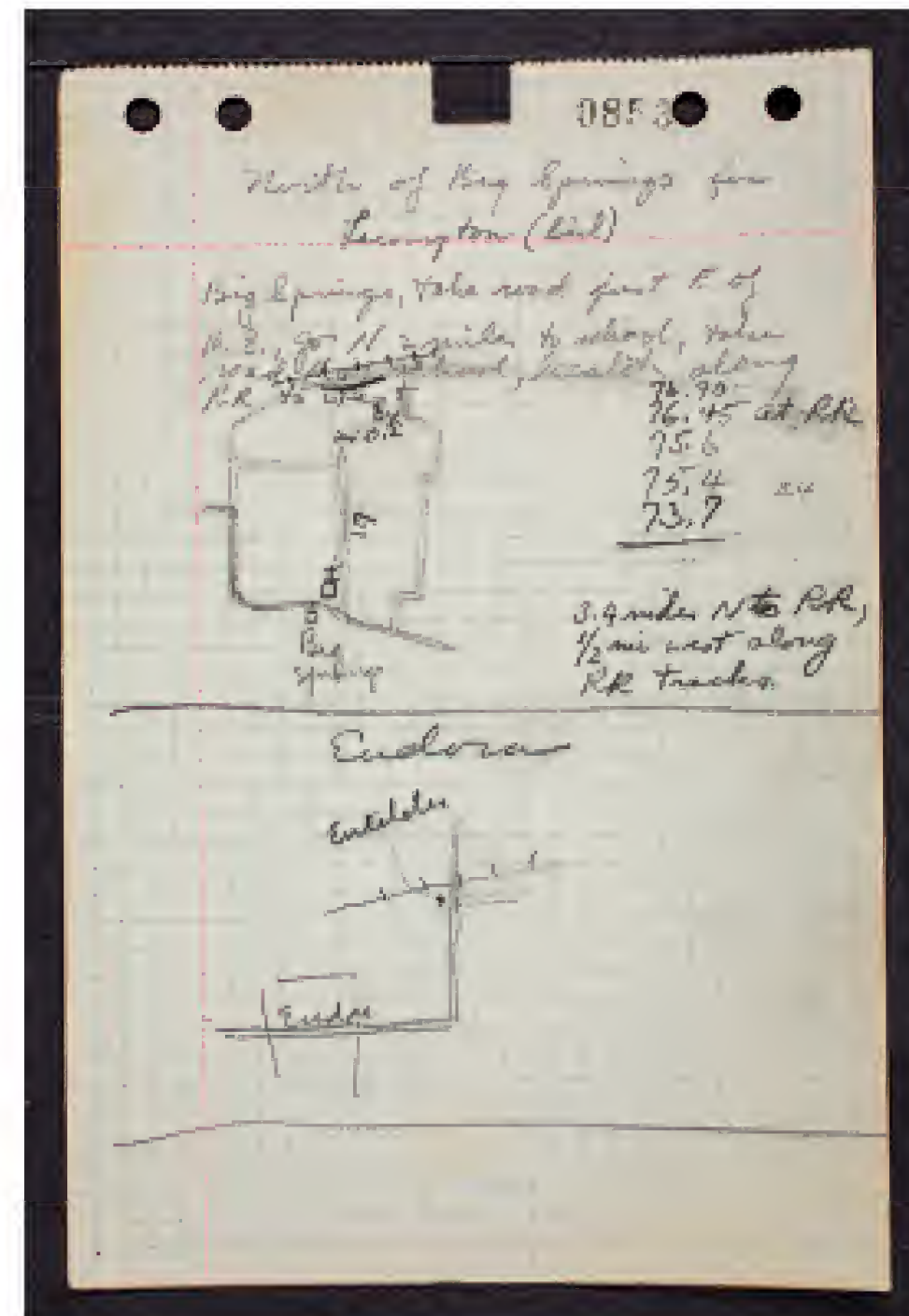
Endora

map

Enteleles

Endore

line across page



G. Arthur Cooper - Field Notes, circa 1955
Transcribed and Reviewed by Digital Volunteers
Extracted Oct-12-2015 01:35:03

0854

M.L. Stryker at Fredonia - Oil geologist Fredonia Qy in Stanton.

Chamite
Vilas - W of Chamite
1/2 mi E of Vilas, cut on RR
E of road crossing. Crossing of RR of hy 39

Just S of Humboldt, Qy in Lola
Quarry for Lola in Cement Qy south of Lola on E.

Abandoned Quarry for Lola ls. just N of Mildred about one mile, west of road.

RR cut at Hooser is south of US 160 on big loop.

0854

M.L. Stryker at Fredonia - Oil
geologist Fredonia Qy in
Stanton.

Chamite
Vilas - W of Chamite
1/2 mi E of Vilas, cut on RR
E of road crossing. Crossing
of RR of hy 39

Just S of Humboldt, Qy in Lola
Quarry for Lola in Cement
Qy south of Lola on E.

✓ Abandoned Quarry for Lola ls.
just N of Mildred about one
mile, west of road.

RR cut at Hooser is south of
US 160 on big loop.

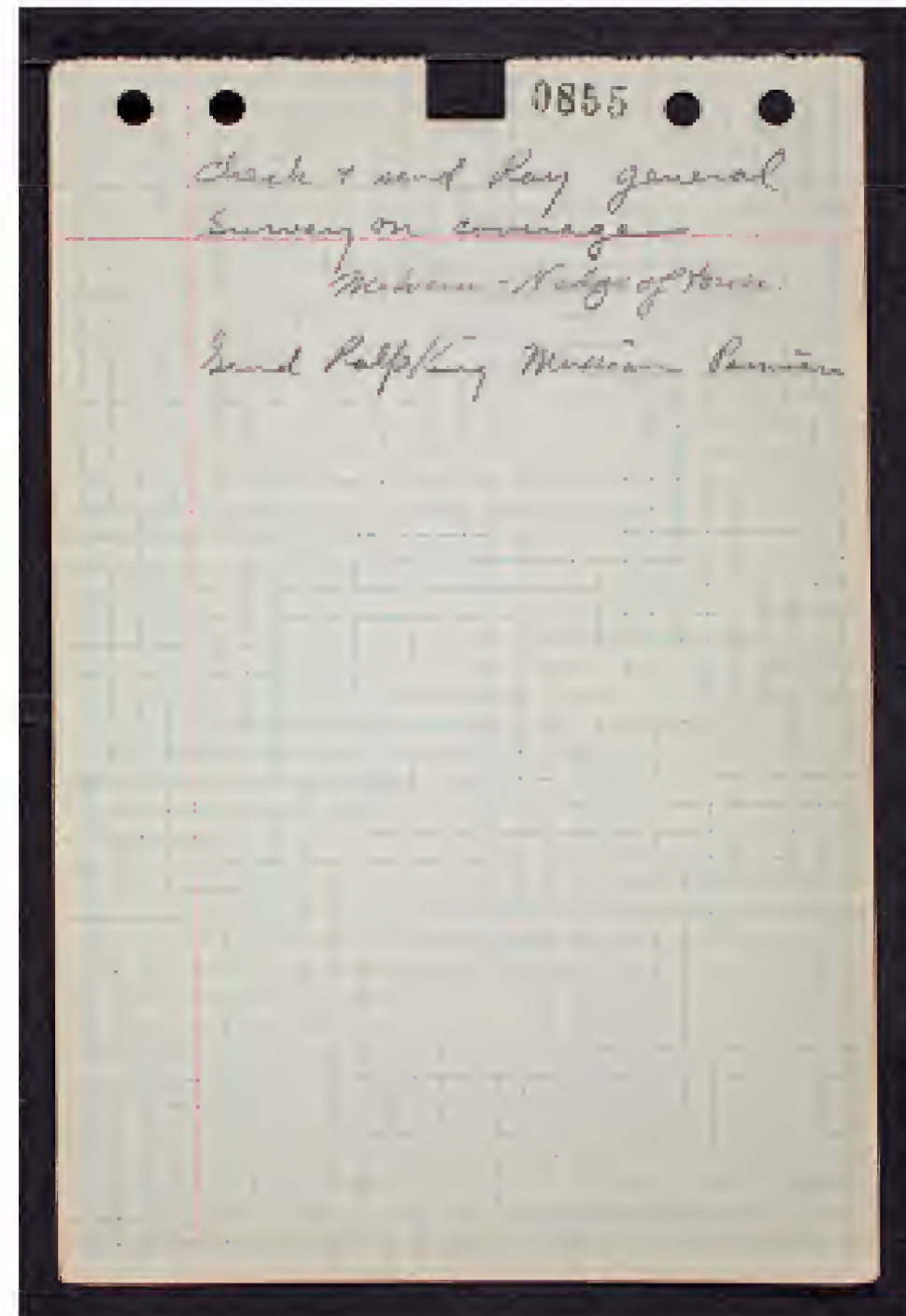
G. Arthur Cooper - Field Notes, circa 1955
Transcribed and Reviewed by Digital Volunteers
Extracted Oct-12-2015 01:35:03

[[stamped]] 0855 [[/stamped]]

Check & send Ray general survey on coverage

Melvern - N edge of town.

Send Ralph King Mexican Permian



G. Arthur Cooper - Field Notes, circa 1955
Transcribed and Reviewed by Digital Volunteers
Extracted Oct-12-2015 01:35:03

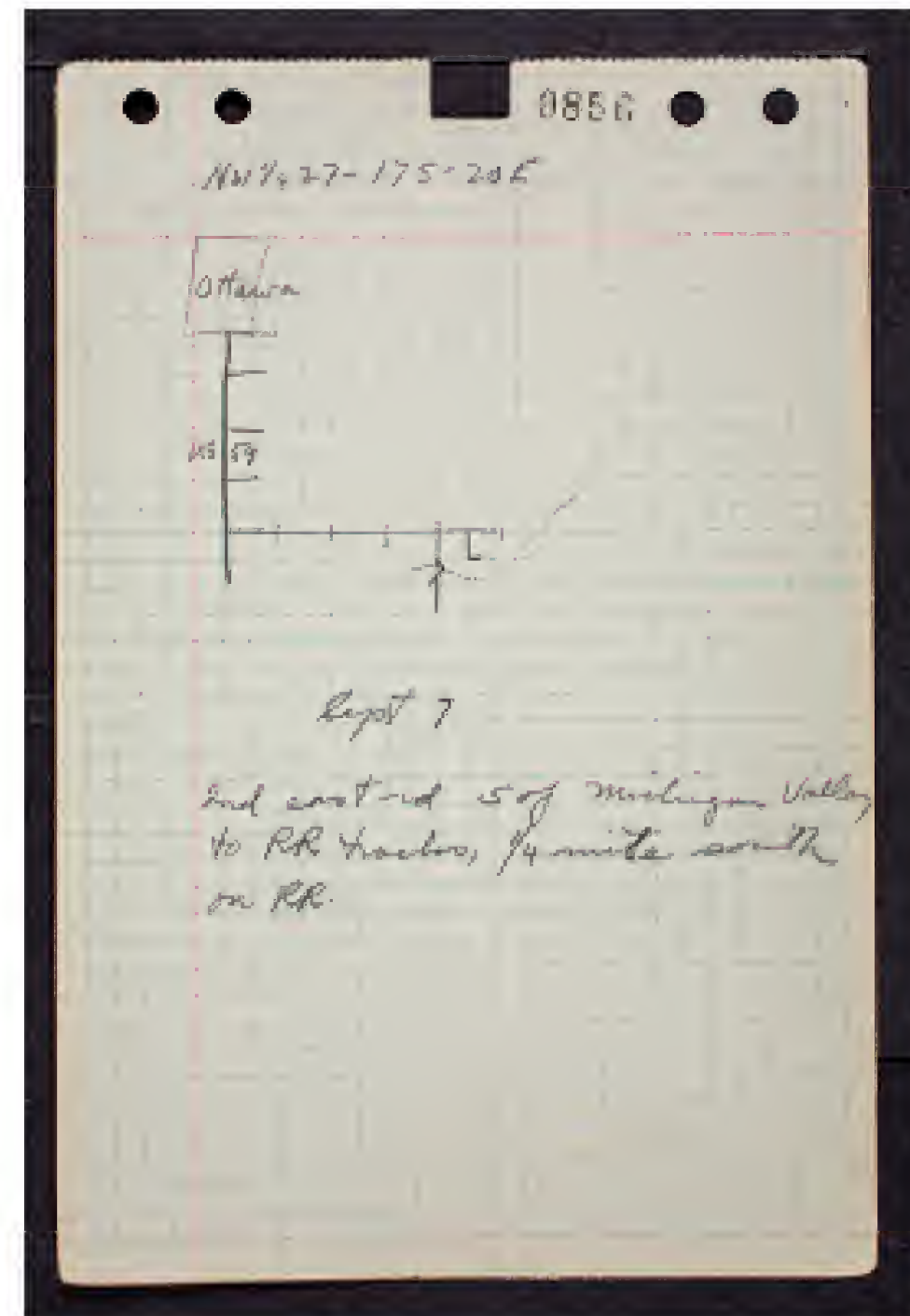
[[stamped]] 0856 [[/stamped]]

NW 1/4 27-175-20E

[[diagram of map with Ottawa and US 59]]

Sept 7

2nd east rd S of Michigan Valley to RR tracks, 1/4 mile south on RR.



G. Arthur Cooper - Field Notes, circa 1955
Transcribed and Reviewed by Digital Volunteers
Extracted Oct-12-2015 01:35:03

0857

Sept 9.

Along RR 3.5 mi N and ½ mi. W of Big Springs, Kansas.

[[image: pencil drawing of cross section of soil showing layers.]]

Avoca - limestone 3-4'.

King Hill Shale 7-8' gray

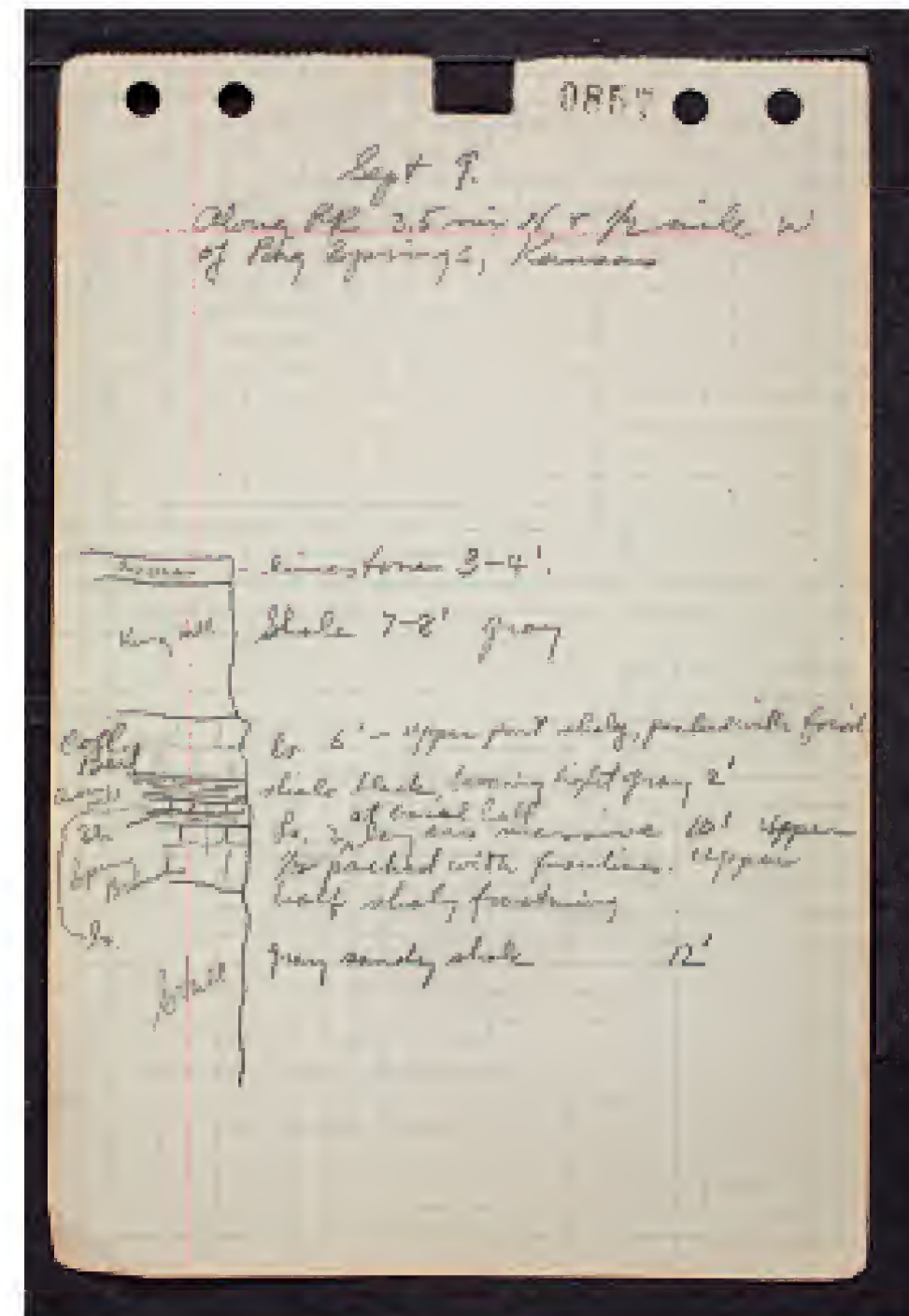
Coll. Beil ls. 6' - upper part shaly, packed with fossil

Queen Hill shale black, becoming light gray 2'

Is. ls. 2' at basal half layers massive 10' upper 1/2 packed with fusulines. Upper half shaly fracturing

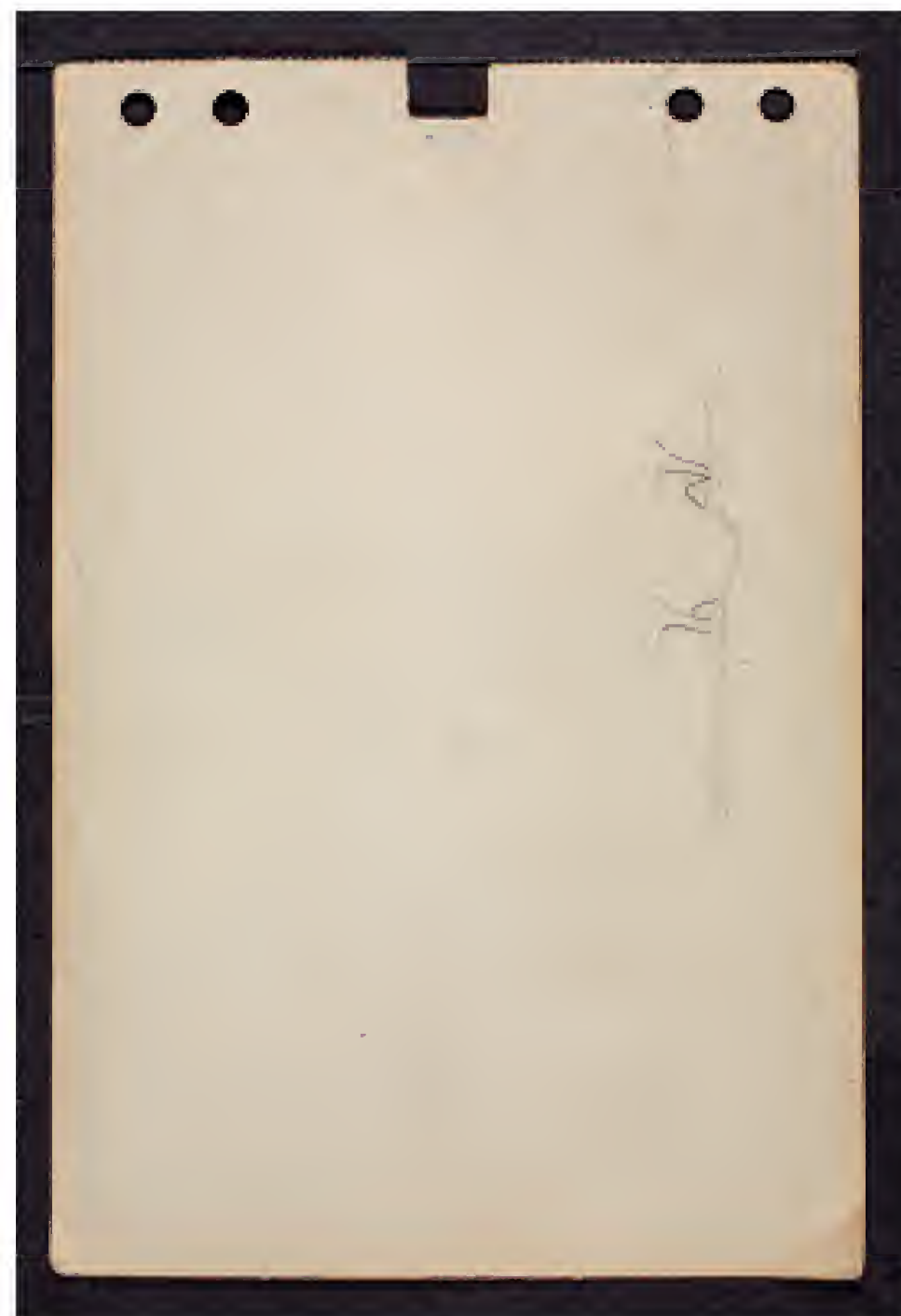
Sh.,
Spring Branches

Stull Gray sandy shale 12'



G. Arthur Cooper - Field Notes, circa 1955
Transcribed and Reviewed by Digital Volunteers
Extracted Oct-12-2015 01:35:03

[[image of sketch]]



G. Arthur Cooper - Field Notes, circa 1955
Transcribed and Reviewed by Digital Volunteers
Extracted Oct-12-2015 01:35:03

May 12, 1955
Hill east of Pompey Center on US 20

[[[image - a schematic showing layers]]

Hard irregularly
bedded ss. with 16'
Tanomers near top
of Delphi Station at bend of road

Crumbly but
firmer than 38'
below, many
mollusks scattered
in rock

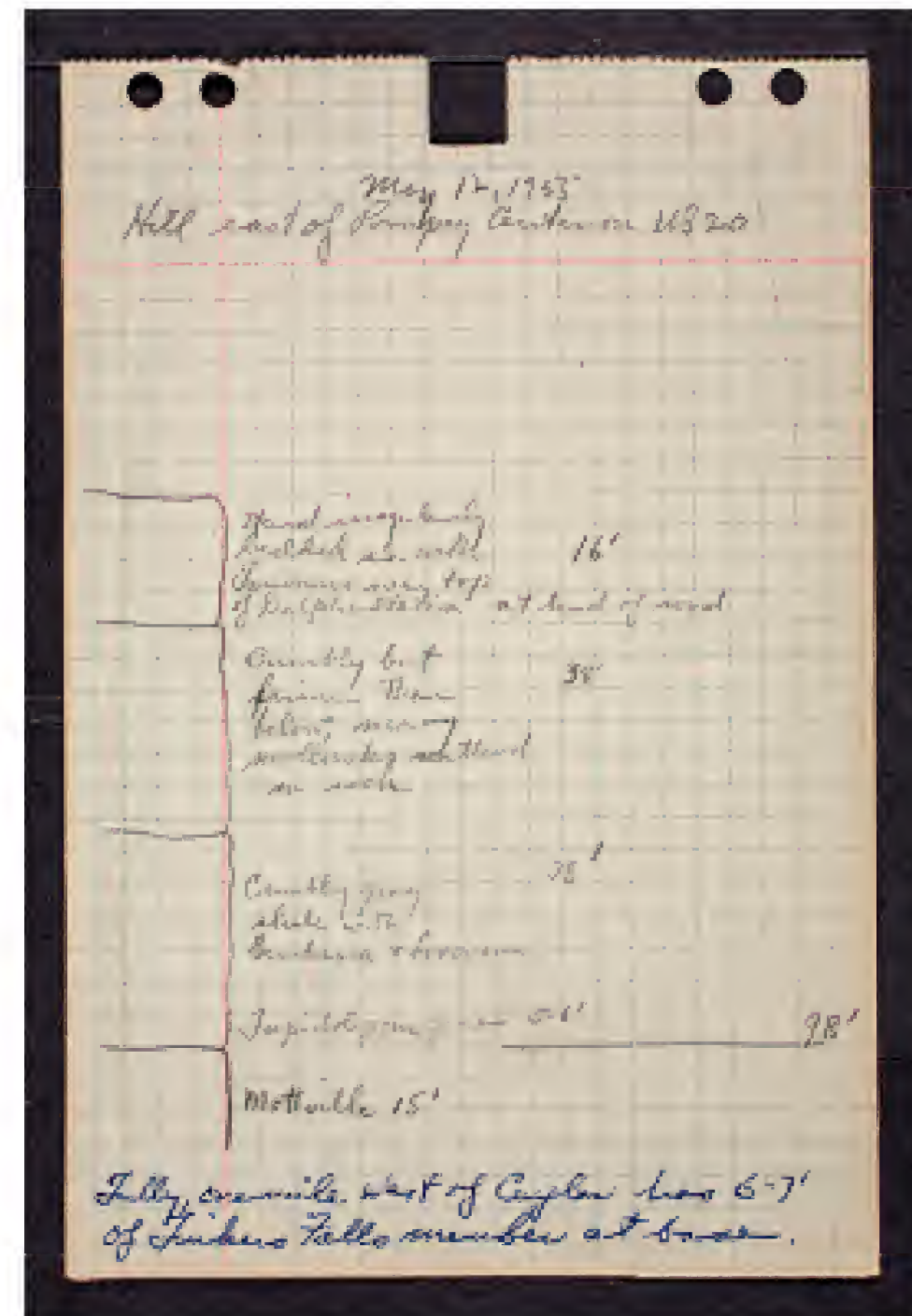
Crumbly gray 38'
shale with
Bembexia & Loxonema

Tropidoleptus zone 5-6'

[[[image - long horizontal line]] 98'

Mottville 15'

Tully, one mile West of Cuyler has 6-7' of Tinkers Falls member at base.



G. Arthur Cooper - Field Notes, circa 1955
Transcribed and Reviewed by Digital Volunteers
Extracted Oct-12-2015 01:35:03



Smithsonian Institution

Smithsonian Institution Archives

The mission of the Smithsonian is the increase and diffusion of knowledge - shaping the future by preserving our heritage, discovering new knowledge, and sharing our resources with the world. Founded in 1846, the Smithsonian is the world's largest museum and research complex, consisting of 19 museums and galleries, the National Zoological Park, and nine research facilities. Become an active part of our mission through the Transcription Center. Together, we are discovering secrets hidden deep inside our collections that illuminate our history and our world.

Join us!

The Transcription Center: <https://transcription.si.edu>

On Facebook: <https://www.facebook.com/SmithsonianTranscriptionCenter>

On Twitter: [@TranscribeSI](https://twitter.com/TranscribeSI)

Connect with the Smithsonian

Smithsonian Institution: www.si.edu

On Facebook: <https://www.facebook.com/Smithsonian>

On Twitter: [@smithsonian](https://twitter.com/smithsonian)